

# City of Green Cove Springs

## Approved Materials

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*Note: Push on joint shown as an example only. See plans and specifications for joint type. Must be of domestic origin and must have been cast and machined in the United States.*

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### **DESCRIPTION:**

Ductile Iron (D.I.) Pipe, cement-lined, ANSI A21.50, AWWA C150, Class 51 minimum ANSI A21.51, AWWA, C151, cement lined as per AWWA C110, C115 and C151. Pipe shall have 60,000 p.s.i. minimum tensile strength and 42,000 p.s.i. minimum yield strength. Marking tape must be used in this material installation. GCS does not permit 3" pipe in the GCS owned and maintained utility system.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	U.S. Pipe	N/A
	Clow Water Systems Co.	N/A
	American Ductile Iron Pipe	N/A
	Griffin Pipe Products	N/A

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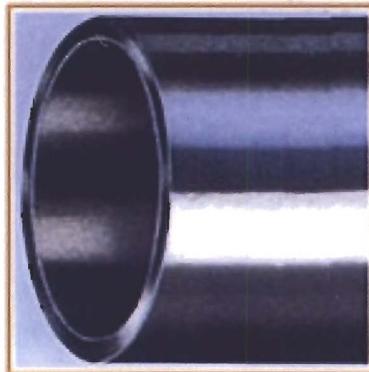
# DR-18 PVC Pipe

## **DESCRIPTION:**

DR-18, (C900) 235 PSI PVC for Fire Mains and Water Distribution Mains 4" thru 24". DR-25 (C900) 165 PSI for Water Distribution Mains above 24", conforming to ASTM D-1784, D-2241, D-3139 and F-477, color coded blue and marked on at least 2 sides with the word "WATER" and at every 12" along barrel of pipe. Couplings shall be rubber gasketed, push-on type, conforming to ASTM D-2122.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" to 36"	JM Eagle Corporation .	N/A
	North American Pipe Co.	N/A
	Diamond Plastics Corp.	N/A
	CertainTeed Corp.	N/A
	National Pipe & Plastics, Inc.	N/A
	Sanderson Pipe Corp.	N/A

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*Note: Must be of domestic origin, and must have been cast and manufactured in the United States.*

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**DESCRIPTION:**

Steel Casing Pipe, Wall thickness (as per DOT specifications), ASTM A139, maximum yield strength of 35,000 p.s.i.

**SIZE**  
Varies

**MANUFACTURER**  
N/A

**MODEL #**  
N/A

**REVISION DATE**  
07/09/18

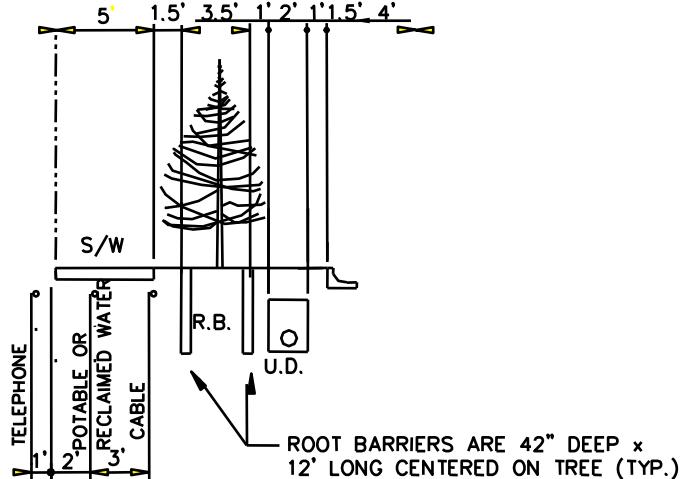
**ITEM**  
STEEL CASING PIPE

**PAGE**  
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# Root Barrier



### **DESCRIPTION:**

Extruded sheets or panels with integral male/female sliding lock connection ends. Material shall be HDPE with a minimum thickness of 60 mil, and shall be ribbed. Root barrier shall extend to a minimum depth of 42" below finish grade. The root barrier shall be a minimum of 12' long, centered on the tree and parallel to the utility main or service line being protected, unless shown otherwise on the plans. Root barrier shall be installed at any tree planted in a GCS utility easement, or any tree planted within 7.5' of all GCS utility mains or services. No trees shall be planted in a GCS utility easement without the approval of GCS. No trees shall be closer than 5' to any utility line or services.

**SIZE**  
N/A

**MANUFACTURER**  
N/A

**MODEL #**  
N/A

**REVISION DATE**  
07/09/18

**ITEM**  
ROOT BARRIER

**PAGE**  
W-4

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### **DESCRIPTION:**

PVC 1120 Sch80 Pipe Water Service as per ASTM D1785, bell and spigot with marking tape. GCS does not permit 3" pipe in the GCS owned and maintained utility system.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
2" and smaller	JM Manufacturing Company, Inc.	N/A
	North American Pipe Co.	N/A
	National Pipe & Plastics, Inc.	N/A
	Sanderson Pipe Corp.	N/A
	Colonial Pipe	N/A
	Universal 100s Products/Accord Industries	N/A
	Freedom Plastics, Inc.	N/A
	Vassallo Industries	N/A
	Charlotte Pipe and Foundry Co.	N/A
	IPEX	N/A

**City of Green Cove Springs**  
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**DESCRIPTION:**  
Wide Range Coupling

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
2" thru 12"	Ford Meter Box Company, Inc.	FC2W Ultra-Flex
	PowerSeal Pipeline Products Corp.	3506 PowerMax
	Mueller Company	Max-Range
	JCM	Coupling Optimum
	Romac	XR501
	Romac	Alpha
	Romac	Macro HP
	TPS	TX3 Series

Wide Range Coupling

# City of Green Cove Springs

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*NOTE: Mechanical Joint Cross shown as an example only.*

---

**DESCRIPTION:**

Ductile Iron cement-lined or ceramic epoxy-lined (meeting ANSI/NSF-61) fittings including bends, tees, crosses, reducers, plugs, caps, anchoring tees, sleeves, offsets, wye-branch & true-wye, 350 compact MJ fittings C153/A21.53, Flange fittings C110/A21.10.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
3" and larger	Union Foundry Corp.	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Cast Iron Pipe Co.	N/A
	U.S. Pipe	N/A
	Star Pipe Products	N/A
	NAPAC, Inc. Waterworks	N/A
	NACIP, Inc.	N/A
	SIP Industries	N/A
	Sigma	N/A

## City of Green Cove Springs

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*Note: O.D. Ranges may vary. Refer to manufacturer's specifications.*

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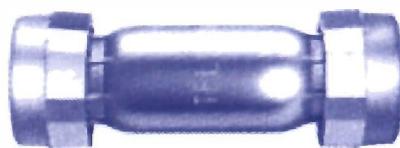
#### **DESCRIPTION:**

Transition Coupling, cement lined or epoxy lined.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	Romac Industries, Inc.	501, Macro HP
	Ford Meter Box Company, Inc.	FC2A
	Ford Meter Box Company, Inc.	FC2W
	Smith-Blair, Inc.	441
	Dresser Hymax	262
	PowerSeal Pipeline Products Corp.	3506-AS
	PowerSeal Pipeline Products Corp.	3506
	Mueller Company	Max-Range Coupling
	JCM	Optimum Range 242
	TPS	TX3 Series

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Boltless Coupling (long or short type)

**SIZE**

1/2" to 2"

**MANUFACTURER**

Dresser  
Telsco  
TPS

**MODEL #**

Style 65  
700 Series  
600 Series

# City of Green Cove Springs

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### **DESCRIPTION:**

Full Circle Repair Clamp (Stainless Steel)

### **SIZE**

All Sizes  
2" to 12"  
10" and larger  
All Sizes  
2" to 12"  
4" to 60"  
2" to 12"  
All Sizes  
All Sizes

### **MANUFACTURER**

Ford Meter Box Company, Inc.  
Smith-Blair, Inc.  
Smith-Blair, Inc.  
Romac Industries, Inc.  
JCM Industries, Inc.  
JCM Industries, Inc.  
Krausz Industries Ltd.  
PowerSeal Pipeline Products Corp.  
PowerSeal Pipeline Products Corp.  
Mueller Company

### **MODEL #**

"F" or "FS" Series  
Series 226 or 256  
Series 228 or 263  
"SS" or "CL" Series  
101 or 131  
102 or 132  
E.Z. Max  
3121  
3121 AS  
Series 500

## City of Green Cove Springs

### Approved Materials



*Note: Must be of domestic origin and must have been cast and machined in the United States.*

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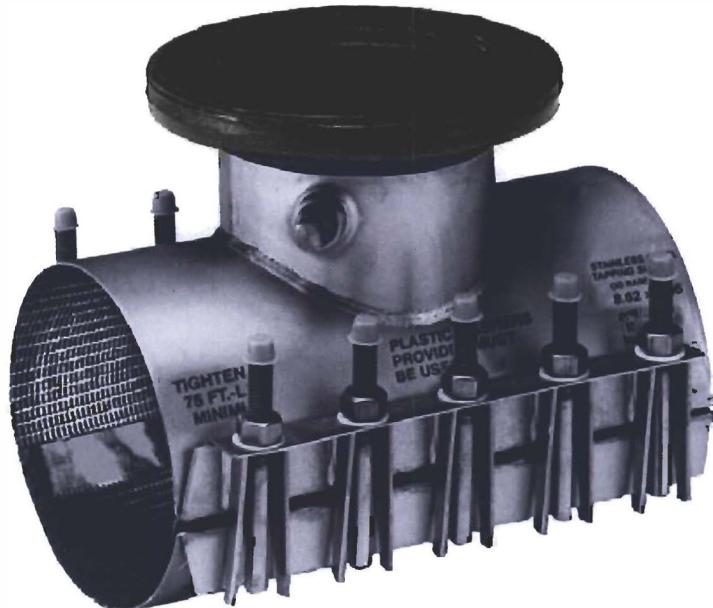
#### **DESCRIPTION:**

Mechanical Joint Accessory Pack

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
3" and larger	Union Foundry Co. (McWane, Inc.)	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Ductile Iron Pipe	N/A
	U. S. Pipe	N/A
	Star Pipe Products	N/A
	NAPAC, Inc. Waterworks	N/A
	Merit Fasteners Corp.	N/A

# City of Green Cove Springs

## Approved Materials



*Note: Must be all Stainless Steel. No dissimilar metals allowed.*

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### **DESCRIPTION:**

Stainless Steel Tapping Sleeve

### **SIZE**

4" and larger

### **MANUFACTURER**

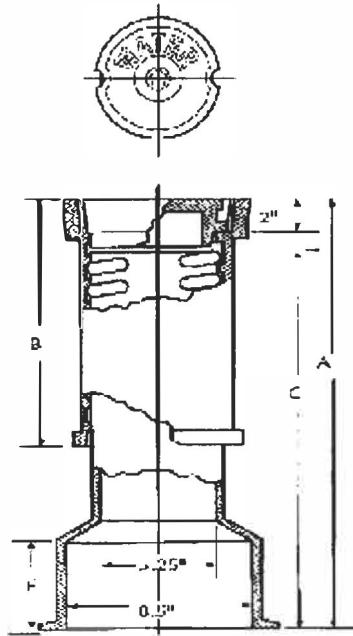
Ford Meter Box Company, Inc.  
Romac Industries, Inc.  
Smith Blair, Inc.  
Cascade Waterworks Mfg.  
Dresser  
Mueller Co.  
PowerSeal Pipeline Products Corp.

### **MODEL #**

FAST Series  
SST  
663 & 665  
CST-EX  
Style 630  
H304  
3490 MJ

# City of Green Cove Springs

## Approved Materials



*Note: Must be of domestic origin and must have been cast and machined in the United States.*

### DESCRIPTION:

Cast Iron Screwed Valve Box and Cover, shall be non-tacky tar enamel coated, with the word "WATER" cast into the cover.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
N/A	Tyler Pipe (McWane, Inc.)	461-S
	U.S. Foundry	7500
	Opelika Foundry (Bingham & Taylor)	4905 (size 18)
	PCI Fastech	N/A
	Sigma Corp./Russell	N/A

# City of Green Cove Springs

## Approved Materials



*Note: For Ductile Iron only.*

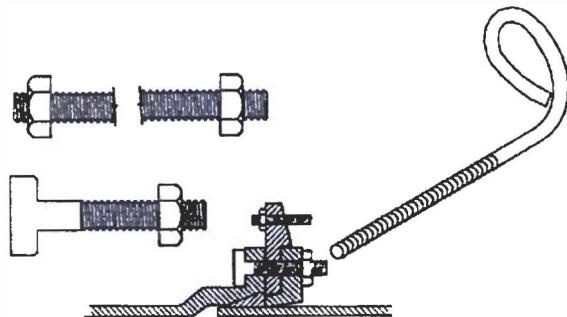
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### **DESCRIPTION:**

Mechanical Joint Retainer Gland for Ductile Iron Pipe

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	Union Foundry Co. (McWane, Inc.)	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Ductile Iron Pipe	N/A
	U. S. Pipe	N/A
	Star Pipe Products	Series 600 MJRGHD
	Star Pipe Products	Series 3000
	Star Pipe Products (Repairs Only)	Series 3000S
	Tyler Union	Series TGD
	Tyler Union	Series 1000
	Tyler Union	Series 1500 (Dual Wedge)
	Ebaa Iron Inc.	Series 1100
	Smith-Blair	CAM-Lock 111
	Ford Meter Box Company	UFR 1400 Dxl
	SIP Industries	EZDP08

**City of Green Cove Springs**  
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**DESCRIPTION:**

Mechanical Joint Fasteners / Tie Lugs

**SIZE**  
3/4"

**MANUFACTURER**  
N/A

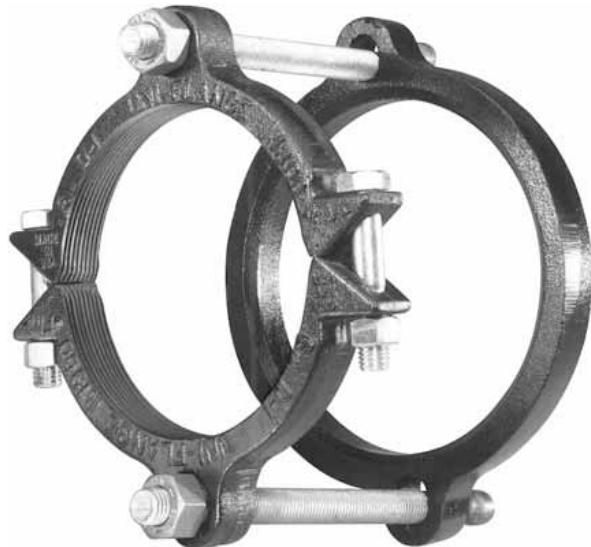
**MODEL #**  
N/A

\*See specifications for all Thread Rods, Eye Bolts, Nuts and Washers

**Mechanical Joint Fasteners**

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

PVC Pipe - Joint Restraining Devices.

**SIZE**

4" and larger

**MANUFACTURER**

Ford Meter Box Company, Inc.  
Ford Meter Box Company, Inc.  
Ford Meter Box Company, Inc.  
Ebba Iron, Inc.  
Star Pipe Products  
Star Pipe Products  
Sigma Corporation  
Ebba Iron  
Ebba Iron  
Star Pipe

**MODEL #**

Uni-Flange 1300 series  
Uni-Flange 1350 series  
Uni-Flange 1390 series  
6500 Series  
1000 Series  
1100 Series  
PV-Lok, PVM & PVP Series  
Series 6506 P.F./MJ  
Series 6506  
PVC Stargrip Series 4000G2

City of Green Cove Springs  
Approved Materials



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**DESCRIPTION:**

Flange Adapters, Ductile Iron Pipe Only.

**SIZE**

4" and larger

**MANUFACTURER**

Ford Meter Box Company, Inc.

Ford Meter Box Company, Inc.

Ford Meter Box Company, Inc.

Ebaa Iron, Inc.

Ebaa Iron, Inc.

Star Pipe Products

Star Pipe Products

Sigma

**MODEL #**

Uni-Flange 200 series

Uni-Flange 400 series

Uni-Flange 900 series

000 Series

3500 Series

200 Series

400 Series

ZF2-ZF4 Series

# City of Green Cove Springs

## Approved Materials



*Note: All valves shall open by turning to the left. Mechanical Joint shown as an example only. See specifications for additional joints.*

### **DESCRIPTION:**

All gate valves including tapping valves, regardless of size shall be AWWA C-515 D.I.

*Note: Any manufacturer who wishes to pour Ductile Iron into the mold of a C-509 type valve, creating a full wall D.I. valve, will be permitted to do so.*

All gate valves shall be equipped with the following items: all bolts, nuts, and washers shall be stainless steel 304 or 316 grade, assembled with anti-seize compounds; the wedge shall be ductile iron; all resilient wedge material shall be EPDM rubber with the wedge fully encapsulated in a manner to prevent the rubber from separating from the metal wedge; the entire gate valve shall be fusion-bonded epoxy coated conforming to AWWA C550 and NSF 61 certified; all stems shall be stainless steel, lead free, type 304 through 430 S.S. per ASTM A276; valve shall have a 2" operating nut and open left. All gate valves 10" and larger in size shall have four bolthole slots in the upper quadrant of M.J. Flange, or supplier shall supply equivalent hardware, including eyebolts and properly shaped restraining bolts, to accomplish the same installation, as part of the gate valve cost.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	American Flow Control	2500 Series
	American Flow Control with ALPHA™ Ends	2500 Series
	Mueller Company	2300 Series
	Mueller Company	A-2361
	M&H Valve Co.	7000 Series
	Clow Valve Co.	2638 Series
	American AVK Company	45 & 55 Series

# City of Green Cove Springs

## Approved Materials



*Note: All valves shall open by turning to the left. Threaded and Union Style bonnets approved.*

### **DESCRIPTION:**

Bronze Gate Valve, 150 p.s.i. Class, H.D. Federal Spec. Valves with a wheel handle shall be installed **above ground only**, and shall open to the left.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
3/4" to 2"	Grinnell (threaded bonnet only)	3050
	Stockham	B130 & B131
	Nibco	T-133
	Hammond	1B646 & 1B638

**Bronze Gate Valve, H.D.**

## **City of Green Cove Springs**

Approved Material



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### **DESCRIPTION**

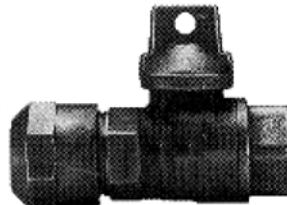
Fusible Polyvinylchloride Pipe (PVC) for potable water distribution 4" thru 24". Fusible PVC pipe shall conform to AWWA C900, AWWA C905, ASTM D2241 or ASTM D1785 for standard dimensions, as applicable. Testing shall be in accordance with referenced AWWA standards of all pipe types. Fusible PVC pipe shall be extruded with plain ends. The ends shall be square to the pipe and free of bevel or chamfer. There shall be no bell or gasket of any kind incorporated into the pipe. Fusible PVC pipe shall be manufactured in standard 40' nominal lengths, or customs lengths as specified. Fusible PVC shall be blue in color for potable water use.

<b><u>Size</u></b>	<b><u>Manufacturer</u></b>
4" to 24"	Underground Solutions Inc.

Item- Fusible Polyvinylchloride Pipe

# City of Green Cove Springs

## Approved Materials



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### **DESCRIPTION:**

Curb stops shall be manufactured from cast bronze with machined fitting surfaces and in accordance with AWWA C800 in sizes 3/4 inch through 2 inches. Curb stop shall be full-port ball valve with check, combined cap and tee, with lock wing cast on stop body and operating tee cap to provide for locking the stop in closed position. Curb stops for use with copper services shall have an inlet connection with a flare nut fitting for Type K copper tubing. Curb stops utilizing poly tubing shall have an inlet connection with a pack joint or compression joint. Curb stops for use with Schedule 80 PVC pipe shall have inlet connections with female iron pipe threads. All curb stops shall have an outlet connection with female iron pipe thread.

### **SIZE**

3/4" to 2"

### **MANUFACTURER**

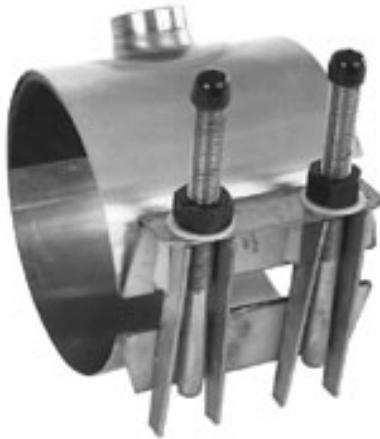
Ford Meter Box Company, Inc.  
Mueller Co.  
AY McDonald Manufacturing Co.

### **MODEL #**

B-11 & B-41 Series  
B-20200  
6101W

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Tapping Sleeve, stainless steel band with stainless steel threaded outlet (NPT).

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
3/4" to 2"	Ford Meter Box Company, Inc.	FS313
	Romac Industries	306
	Smith-Blair, Inc.	372
	PowerSeal Pipeline Product Corp.	3412 AS
		3414 AS
	TPS	T3 Series

# Tapping Sleeve

# City of Green Cove Springs

## Approved Materials



## Fire Hydrant

### **DESCRIPTION:**

Fire hydrants shall open to the left and shall be equipped with the following items: all bolts, nuts, and washers shall be stainless steel 304 or 316 grade, assembled with anti-seize compound; breakaway coupling should be bronze, cast iron/ductile iron; all pins, bolts, or clips shall be stainless steel 304 or 316 grade; upper and lower stems shall be stainless steel 316 grade or 400 grade; main valve seat shall be EPDM rubber and shall be marked as such and shall be assembled in such a fashion the rubber cannot separate from the metal; all coatings shall be NSF approved. Fire hydrant shall be painted Red with white Top and have 1-1/2" penta nuts opening left. Caps shall be attached with stainless steel chain, including swivel ring. Paint shall be silver, BLP Mobile Paints, liquid aluminum, 1151 ALKYD weight 56.6% x volume 41.2%, VOC 3.76 lb/gal.

### **SIZE**

5-1/4"

### **MANUFACTURER**

American-Darling

### **MODEL**

# B-84-B-5

To Ensure Standardization of utility, The City of Green Cove Springs uses only one model fire hydrant.

### **REVISION DATE**

07/09/18

### **ITEM**

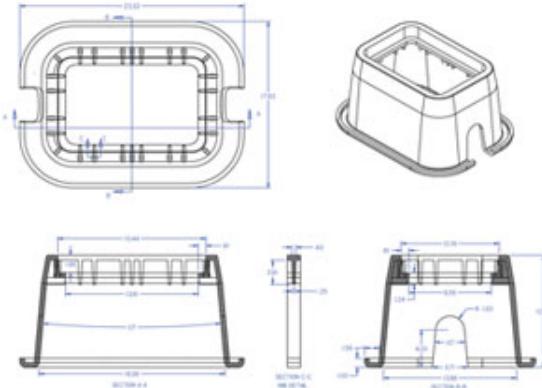
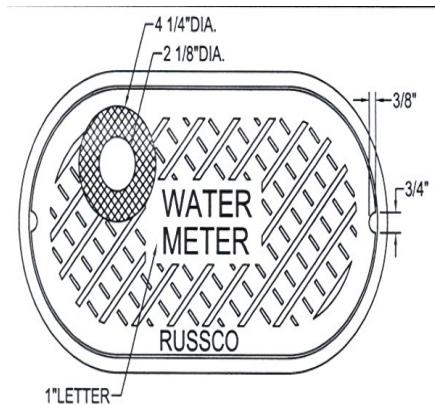
FIRE HYDRANT

### **PAGE**

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# City of Green Cove Springs

## Approved Materials



*NOTE: For meters under 1" and flushing hydrants.*

### **DESCRIPTION:**

Oval Cast Iron Meter Box for residential meters, and flushing hydrants with "WATER" identification cast in the lid. Rome meter box lid with touch read hole. Rectangular Polyethylene Meter Box for residential or commercial meters and flushing hydrants with "Water" identification cast in the lid, including a touch read hole in the lid.

**SIZE**  
10" x 19" x 10"

**MANUFACTURER**  
SigmaCorp/Russell

**MODEL #**  
Rome 1910  
Box MB282T  
Lid MB2821T  
MB-16-17-18  
DFW36C-12-3T

Varies  
18" x 13" x 12"

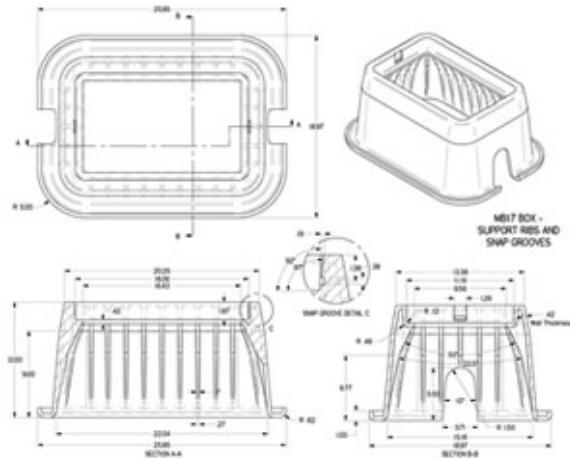
Southeastern Distributors, Inc.  
DFW Plastics, Inc.

**ITEM**  
METER BOX,  
OR FLUSHING HYDRANT

**PAGE**  
W-24

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Rectangular Cast Iron Meter box for 3/4"-1" Meter with "WATER METER" identification cast into the lid.

Rectangular Polyethylene Meter Box for residential or commercial meters and flushing hydrants with "Water" identification in the lid. Lid shall be blue in color.

### **SIZE**

13-3/8" x 20 1/4" x 12"  
14" x 21" x 12"  
21-13/16"x19-11/16"x12"

### **MANUFACTURER**

Southeastern Distributors, Inc.  
DFW Plastics, Inc.  
SIGMA

### **MODEL #**

MB-17  
DFW37C-12-3T  
RMB 111812 NSW

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Rectangular Heavy Duty Meter Box for 1-1/2" and 2" Meters, with "WATER METER" identification cast into or welded onto the lid, including a touch read hole in the lid. Traffic rated lid shall have 3" port for meter reading.

# Meter Box, 1-1/2" & 2" Meters

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
34-3/4" x 21-3/4"X12"	Brooks Products	66 (Box)
34-3/4"x 20-3/4"x12"	Brooks Products	66-TR (Lid)
30" x 17" x 12"	Southern Meter Box, Inc.	C.H. 2" (Box)
	Southern Meter Box, Inc.	T-T.R. 2" (Lid)
	DFW Plastics, Inc.	DFW1730C-12-3T

City of Green Cove Springs  
Approved Materials



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**DESCRIPTION:**

All Solvent Welded Fittings, Schedule 80

**SIZE**

2" and smaller

**MANUFACTURER**

Lasco Fluid Distribution Products

**MODEL #**

N/A

SCH80 Solvent Weld Fittings

**ITEM**

SCH80 SOLVENT WELD FITTINGS

**PAGE**

W-27

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Air Release Valve for Water Distribution Main

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
Varies	Val Matic	VMC-202C
	Val Matic	38
	Crispin	PL10
	Crispin	PL10A
	Crispin	L20
	APCO	200A
	G.A. Industries	905
	G.A. Industries	910
	G.A. Industries	920
	Val Matic	25

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Casing Spacer, Poly or stainless steel center line type. Poly spaced at 3 L.F. maximum on center, or closer if recommended by manufacturer. Stainless steel spaced at 6 L.F. on center, or closer if recommended by manufacturer. Casing Spacer shall not be less than 1/4" or more than 1/2" from top of casing. Casing Spacer shall have 6 runners equally spaced at 60° intervals around the spacer, for pipe sizes 4" through 16". Casing Spacer shall have 8 runners equally spaced at 45° intervals around spacer, for pipe sizes 18" through 36". All spacers for pipe 36" and larger require a separate submittal for GCS review and approval. The distance between spacers for 36" pipe and larger will be determined by GCS, depending on the type of pipe to be installed.

### **Casing Spacer**

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" thru 16"	The BWM Co.	BWM-SS (6 Legs @ 60°)
18" thru 36"	The BWM Co.	BWM-SS (8 Legs @ 45°)
4" thru 12"	The BWM Co.	KP Poly (2 pc. w/ 6 Legs)
8" thru 12"	Advanced Products & Systems, Inc.	(Stainless Steel only)
14" thru 36"	Advanced Products & Systems, Inc.	(Poly)
8" thru 12"	Pipeline Seal & Insulator, Inc. (PSI)	(Stainless Steel only)
4" thru 16"	RACI Spacers North America, Inc.	F/G, P/Q, M/N

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Double Check Detector Valve Assembly with  $\frac{3}{4}$ " by-pass meter, for fire system installations.

### **NOTE:**

The approved materials listed below are for installations owned by GCS. Installations not owned by GCS shall utilize a backflow preventer which complies with the D.E.P. requirements.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
2 1/2" TO 10"	Watts Industries	709 DCDA
	Febco	856
	Hersey/Grinnell (Grinnell Mechanical Products)	DDC-II
	Wilkins Division/Zurn Industries, Inc.	950DA
	Wilkins Division/Zurn Industries, Inc.	450DA
	Wilkins Division/Zurn Industries, Inc.	350DA

**REVISION DATE**  
**07/09/18**

**ITEM**  
**DOUBLE CHECK DETECTOR**  
**VALVE ASSEMBLY, FIRE SYSTEM**

**PAGE**  
**W-30**

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Reduced Pressure Backflow Preventer for system with flow meter upstream and no by-pass meter required.

### **NOTE:**

The approved materials listed below are for installations owned by GCS. Installations not owned by GCS shall utilize a backflow preventer which complies with the D.E.P. requirements.

**SIZE**  
2 1/2" TO 10"

**MANUFACTURER**  
Wilkins Division/Zurn Industries, Inc.  
Watts Industries  
Febco  
Hersey/Grinnell

**MODEL #**  
975  
Series 909  
825Y  
6CM

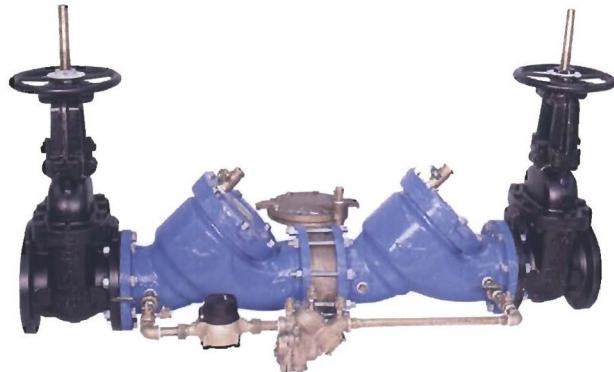
**REVISION DATE**  
07/09/18

**ITEM**  
REDUCED PRESSURE BACKFLOW  
PREVENTER ASSEMBLY

**PAGE**  
W-31

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

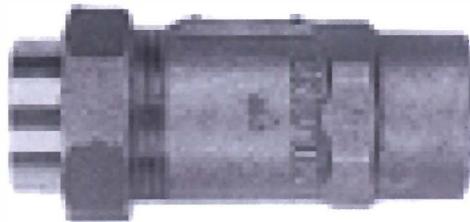
Reduced Pressure Zone Backflow Preventer for commercial service, commercial and residential irrigation and other areas where contamination is present and could gain entrance into the water supply system.

### **NOTE:**

The approved materials listed below are for installations owned by GCS. Installations not owned by GCS shall utilize a backflow preventer which complies with the D.E.P. requirements.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
Varies	Wilkins Division/Zurn Industries, Inc.	375 or 975 2 1/2 " to 10"
	Wilkins Division/Zurn Industries, Inc.	975XL 3/4" to 2"
	Febco	860 2 1/2" to 10"
	Febco	825Y 3/4" to 2"
	Watts Industries	Series 909

## City of Green Cove Springs Approved Materials



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**DESCRIPTION:**

Inline Dual Check Valves for residential service only. All must have a Female Inlet Threaded Fitting and a Male Outlet Threaded Fitting.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
Varies	Wilkins Divisions/Zurn Industries, Inc.	700
	Watts Industries	7F
	Febco	810

Inline Check Valves, Residential

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Ken-Flex Resilient Hinge In-Line Check Valve. All valves shall have stainless steel bolts and nuts installed on the top access plate and the flanged ends. All valves shall be installed with a ductile iron Mechanical Joint by Flanged End Adapter to make the connection to PVC or ductile iron pipe, and shall include all necessary restraining devices to meet GCS pipe restraint details and specifications.

### **SIZE**

4" through 12"  
4" through 12"

### **MANUFACTURER**

Kennedy Valve  
American Flow Control  
Mueller Company

### **MODEL #**

FIG-506  
2100  
Flexible Disc

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Water Meter, Compound Type, low flow registration with low head loss at high flows meeting AWWA C-701. Meter to be installed with stainless steel strainer, as recommended by manufacturer. Meter to be installed with AMR equipment in place.

**SIZE**

3" and larger

**MANUFACTURER**

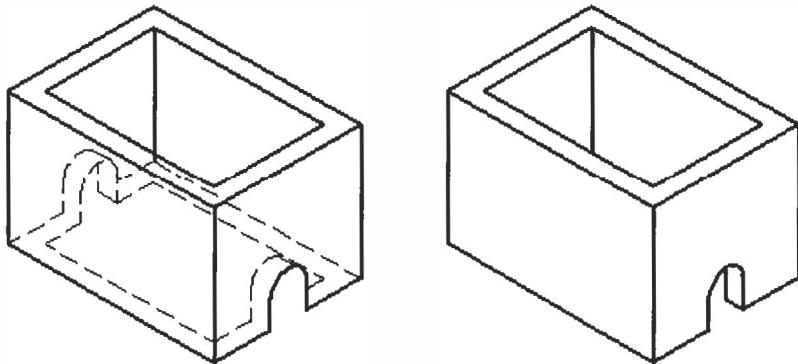
Neptune (Precision Meters)  
with Stainless Steel Strainer

**MODEL #**

Tru/Flo Series  
Compound  
Meter

# City of Green Cove Springs

## Approved Materials



**Notes:**

1. All pipe to be Ductile Iron.
2. All valves and fittings to be ductile iron.
3. Minimum length of 8 diameters of straight pipe to be installed on inlet side of meter.
4. All pipe and fittings to be same size as meter or larger.
5. Concrete box shall be 42" deep with open bottom, precast with notch to accommodate pipe installed 36" deep, installed on 12" of #57 stone.
6. Contractor shall provide shop drawing of box with dimensions for approval by GCS.
7. The cost of the meter will be assessed to developer under separate agreement. The meter only will be furnished to the contractor by GCS and the contractor shall install the meter.

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**DESCRIPTION:**

Precast meter vault for large meters, 3" and above.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
As required	Hanson Pipe & Products Standard Precast or approved equal	N/A N/A

**REVISION DATE**  
07/09/18

**ITEM**  
PRECAST METER VAULT  
FOR LARGE METER

**PAGE**  
W-36

**City of Green Cove Springs**  
Approved Materials



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**DESCRIPTION:**

One Bolt Self Restraining Ductile Iron Epoxy Coated Fittings with 304 SS Retainer and O-Ring Gasket.

**SIZE**

4" through 12"

**MANUFACTURER**

One Bolt, Inc.

**MODEL #**

N/A

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Mechanical Joint Restrainer Gland. For PVC pipe only.

**SIZE**

4" through 24"

**MANUFACTURER**

Ford Meter Box Company  
Ford Meter Box Company  
Ford Meter Box Company  
Star Pipe Products  
Ebaa Iron, Inc.  
Tyler Union  
Tyler Union  
Tyler Union  
Smith & Blair  
SIP Industries

**MODEL #**

Uni-Flange Series 1500 S (IPS)  
Uni-Flange Series 1500 C (PVC)  
UFR1500 (PVC)  
Series 4000  
Series 2000 (PV)  
Series 1500 (Dual Wedge)  
Series 2000  
Series 3000  
Cam-Lock 120  
EZPVCP08

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Heavy Body Ductile Iron Resilient Seated Gate Valve. All valves shall open by turning to the left and shall be equipped with a 2" square operating nut. All valves shall have NPT threaded female ends. All valves shall have a 250 PSI working pressure. All valves shall have 3/6 SS gland bolts, 316 SS stem, cast iron or a brass wedge, fully encapsulated w/ EPDM rubber, fusion-bonded epoxy coating meeting or exceeding AWWA C550. Valves shall be tested to AWWA C509 standards.

### **SIZE**

1" - 3"

### **MANUFACTURER**

AVK

### **MODEL #**

Series 03

### **REVISION DATE**

07/09/18

### **ITEM**

DUCTILE IRON GATE VALVE

### **PAGE**

W-39

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Tracer wire for Horizontal Directional Drilling Installation shall be a 8 gauge soild, Pro-Trace HD-CCS PE45. Tracer Wire shall be copper clad steel conductor with a minimum break load of 2,150 lbs (or 165,800 psi) and shall be extruded with a 45 mil. HDPE coating. The coating shall be of the proper color to meet the APWA color code of the buried utility line. Tracer wire shall meet the specs as that of Pro-Line Safety Products. 8 AWG Soild Pro-Trace HD CCS PE45, Hard Drawn, 21% IACS conductivity, copper clad steel, break load of 2,150 LBS, 45 Mil HDPE coating, 30 Volts and ROHS compliant, Pro-Trace or approved equal.

Tracer wire for open-trench direct bury shall be a 12 gauge solid, Pro-Trace HF-CCS PE30. Tracer wire shall meet the specs as that of Pro-line SafetyProducts. 10 AWG Soild Pro-Trace HF-CCS PE30, consist of a dead soft annealed, 21%IACS conductivity, copper clad steel conductor, break load of 448 LBS (or 55,000 PSI), with a 30 mil HDPE coating, 30 volts and ROHS compliant, the coating shall be of the proper color to meet the APWA color code of the buried utility line, Pro-Trace or approved equal.

### Tracer Wire

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
<b><u>DIRECTIONAL DRILLING ONLY</u></b>		
8 Gauge	Pro-Line Safety Products	HD-CCS PE 45
8 Gauge	Copperhead	845-EHS
<b><u>DIRECT BURY ONLY</u></b> <b><u>(NON-HORIZONTAL DIRECTIONAL DRILLING)</u></b>		
12 Gauge	Pro-line SafetyProducts	HF-CCS PE 30
12 Gauge	Copperhead	1030 SF
<b><u>ITEM</u></b>		<b><u>PAGE</u></b>
TRACER WIRE		W-40

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Tracer Wire Box shall be designed to be easily detected by magnetic and electronic locators even when box is covered by a minimum of four (4) inches of soil, sod and / or paving material.

- \* Where utility mains are to be installed beneath sidewalk, Tyler Union (461-S ) valve boxes shall be installed instead of locate wire boxes.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
	Copperhead Sigma Corp./Russell	Snake Pit Rome 1910 Box MB282T Lid MB2821T
	Copperhead Tyler Union	Snake Pit 461S

# City of Green Cove Springs

## Approved Materials



### **DESCRIPTION:**

Tubing shall be manufactured of PE 4710, High Density Polyethylene (HDPE), in accordance with AWWA C901, ASTM D1248, ASTM D2239, ASTM D2737 and ASTM D3350. The tubing shall have a minimum working pressure of 250 PSI. Polyethylene tubing shall be copper tube size SDR-9 and shall be colored blue. HDPE pipe shall have ultraviolet (UV) inhibitors for protection against direct sunlight for 1 year.

Inserts for polyethylene tubing may be utilized, at contractor's option, and if used, shall be 316 stainless steel. The use of no-lead brass couplings, tees and "Y" fittings are acceptable on poly service tubing, if not located under the roadway. Tubing shall be approved with potable water by the National Sanitation Foundation (NSF-14) and shall be continuously marked at intervals of not more than four feet with the nominal size, pressure rating, NSF seal, Manufacturer's name and trademark, Standard dimension ratio and ASTM specification.

### **SIZE**

2" and smaller

### **MANUFACTURER**

ENDOT Industries, Inc.  
Rehau  
ADS

### **MODEL #**

**REVISION DATE**  
07/09/18

**ITEM**  
POLYETHYLENE TUBING

**PAGE**  
W-42

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Brass Adapter & Coupler for polyethylene pipe shall be no-lead brass conforming to AWWA C800 and shall be female IPS, pack joint or compression nut.

### Brass Adapter & Coupler

**SIZE**

2" and smaller

**MANUFACTURER**

Ford Meter Box Company, Inc.  
McDonald  
Mueller  
James Jones  
Cambridge Brass

**MODEL #**

# City of Green Cove Springs

## Approved Materials



*Note: Select desired saddle O.D. range which specifically matches outside diameter of pipe. Saddles for C-900 shall be sized to the exact O.D. size for proper fit. Single Strap Saddle is approved for new 1-inch water services only which are installed on dry water main, sized 4-inch through 10-inch.*

### **DESCRIPTION:**

Service Saddle shall be epoxy or poly coated with single stainless steel straps. Service saddles shall include stainless steel bands with either 3 mil thickness (minimum) epoxy or poly coated (malleable or ductile) iron body or 85 – 5 – 5 – 5 bronze body. Single band saddles may be utilized on new 1 inch water services which are installed on a dry 10 inch size or smaller water main. For wet taps or water mains 12 inch size and larger, a double band saddle is required. Outlet sizes shall be 1 inch through 2 inches and have iron pipe threads (IPS). The outside diameter range of the saddle shall be properly sized to conform to the type of pipe being tapped without placing undue stress on the pipe. Pipe shavings or cuttings, including coupon, shall not enter the host pipe during the tapping operation.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
1" and smaller	Ford Meter Box Company, Inc.	FC-101
	Romac Industries, Inc.	101 NS
	Smith-Blair, Inc.	315
	JCM Industries (new construction only)	405
	PowerSeal Pipeline Products Corp.	3417, 3409
	Mueller Company	DR1S

# City of Green Cove Springs

## Approved Materials



*Note: Select desired saddle O.D. range which specifically matches outside diameter of pipe. Saddles for C-900 shall be sized to the exact O.D. size for proper fit. A double strap saddle will be required for all wet taps and are acceptable for installation on dry water supply mains (all sizes).*

### **DESCRIPTION:**

Service Saddle shall be epoxy or poly coated with stainless steel straps. Service saddles shall include stainless steel bands with either 3 mil thickness (minimum) epoxy or poly coated (malleable or ductile) iron body or 85 – 5 – 5 – 5 bronze body. For wet taps or water mains 12 inch size and larger, a double band saddle is required. Outlet sizes shall be 1 inch through 2 inches and have iron pipe threads (IPS). The outside diameter range of the saddle shall be properly sized to conform to the type of pipe being tapped without placing undue stress on the pipe. Pipe shavings or cuttings, including coupon, shall not enter the host pipe during the tapping operation.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
2" and smaller	Ford Meter Box Company, Inc.	FC-202, 202BS
	Romac Industries, Inc.	202 DS(Dual)
	Smith-Blair, Inc.	317
	JCM Industries (new construction only)	406
	PowerSeal Pipeline Products Corp.	3417, 3409
	Mueller Company	DR 25
	TPS	Wide Range